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|   |                           |              | Application Number 10/751,361                      |                                | 51,361  |
|---|---------------------------|--------------|--|--------------------------------|---|
| TRANSMITTAL   |                           | Filing Date  | 01/0   | 5/2004                         |   |
| ŀ   | FORM                      |              | First Named Invento                                | r Axel                         | Bumann  |
| (to be used for all co  | rrespondence after initia | l filing)    | Art Unit   |                                |   |
| •   |                           |              | Examiner Name                                      |                                |   |
| Total Number of Pages   | s in This Submission      |              | Attorney Docket Nur                                | mber 496                       | 5-000172  |
|   |                           | ENCLO        | SURES (check all that                              | apply)                         |   |
| Fee Transmittal F   | form                      | ☐ Drawin     |  |                                | After Allowance Communication to<br>Group   |
| Fee Attached  |                           | Licensi      | ng-related Papers                                  |                                | Appeal Communication to Board of<br>Appeals and Interferences   |
| Amendment / Rep   | oly                       | Petition     | 1  |                                | Appeal Communication to Group<br>Appeal Notice, Brief, Reply Brief)   |
| After Final   |                           |              | n to Convert to a<br>onal Application              | □ F                            | Proprietary Information   |
| Affidavits/dec  | laration(s)               |              | of Attorney, Revocation<br>e of Correspondence Add | dress S                        | Status Letter   |
| Extension of Time   | e Request                 | Termin       | al Disclaimer                                      | $\boxtimes$                    | Other Enclosure(s) please identify below):  |
| Express Abandon   | ment Request              | _ `          | st for Refund<br>umber of CD(s)                    |                                | English translation of<br>International Preliminary<br>Examination Report; and<br>postcard.                         |
| Information Disclo  | sure Statement            |              |  |                                | postcard.   |
| Certified Copy of Document(s)   | Priority                  | Rema         | The Commision fees that may                        | be required un                 | authorized to charge any additional<br>der 37 CFR 1.16 or 1.17 to Deposit<br>licate copy of this sheet is enclosed. |
| Response to Miss Incomplete Applic                                    |                           |              |  |                                |   |
| Response to Parts under 3 1.52 or 1.53                                |                           |              |  |                                |   |
|   | SIGNAT                    | URE OF       | APPLICANT, ATTORI                                  | NEY, OR AGE                    | ENT   |
| Firm<br>or<br>Individual name   | Harness, Dickey & Pie     | rce, P.L.C.  | Attorney Name<br>Christopher M. Brock              |                                | Reg. No.<br>27313   |
| Signature   | Clinic                    | talle        | m Brow   | ·                              |   |
| Date  | May 14, 2004              | - Jan 200    |  |                                |   |
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| I hereby certify that the Service with sufficier Alexandria, VA 22313 | nt postage as first c     | lass mail ir | simile transmitted to the<br>an envelope addresse  | USPTO or dep<br>ed to: Commiss | osited with the United States Postal sioner for Patents, P.O. Box 1450,   |
| Typed or printed nam  |                           |              |  | Express Mail<br>Label No.      | EV 406 075 467 US (5/14/2004)   |
| Signature   | aunds                     | yllen        | M Brock  | _ Date                         | May 14, 2004  |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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# Translation

## PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference   |   |  |  |  |  |
|---|---|--|--|--|--|
| 1026P100WO - VH/bj  | FOR FURTHER ACTION  | SeeNotificationofTransmittalofInternational Preliminary Examination Report (Form PCT/IPEA/416) |  |  |  |
| International application No.   | International filing date (day/n  | month/year) Priority date (day/month/year)   |  |  |  |
| PCT/EP2002/006680   | 18 June 2002 (18.06   |  |  |  |  |
| International Patent Classification (IPC) or na<br>A61C 8/00, 7/00, 7/28  | ational classification and IPC  |  |  |  |  |
| Applicant ALTATEC MED   | IZINTECHNISCHE ELE  | EMENTE GMBH & CO. KG   |  |  |  |
| This international preliminary examinand is transmitted to the applicant accurate.  | nation report has been prepared cording to Article 36.  | by this International Preliminary Examining Authority  |  |  |  |
| 2. This REPORT consists of a total of   | 5 sheets, includin  | ng this cover sheet.   |  |  |  |
| This report is also accompanie amended and are the basis for  | ed by ANNEXES, i.e., sheets of<br>this report and/or sheets contain<br>Administrative Instructions unde | f the description, claims and/or drawings which have been                                      |  |  |  |
|   |   |  |  |  |  |
| 3. This report contains indications relating  | ng to the following items:  |  |  |  |  |
| 1 🔀 Basis of the report   |   |  |  |  |  |
| II Priority   |   |  |  |  |  |
| III Non-establishment of  | opinion with regard to novelty,   | , inventive step and industrial applicability  |  |  |  |
| IV Lack of unity of invention   |   |  |  |  |  |
| V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |   |  |  |  |  |
| VI Certain documents cite   | ed  |  |  |  |  |
| VII Certain defects in the  | international application   |  |  |  |  |
| VIII Certain observations on the international application  |   |  |  |  |  |
|   |   |  |  |  |  |
|   |   |  |  |  |  |
| Date of submission of the demand  |   | completion of this report  |  |  |  |
| 06 December 2002 (06.12.2002)   |   | 04 November 2003 (04.11.2003)  |  |  |  |
| Name and mailing address of the IPEA/EP   |   | Authorized officer   |  |  |  |
| Facsimile No.   | Telephon  | ne No.   |  |  |  |

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2002/006680

| 1. Dasis                              | s of the rep                             | port  |   |  |
|---------------------------------------|--|---|---|--|
| 1. With                               |  | the elements of the international application:*   |   |  |
|                                       | the inter                                | mational application as originally filed  | ·   |  |
| $\boxtimes$                           | the descr                                | ription:  | ٠.  | •  |
|                                       | pages _                                  | 1-17  |   | , as originally filed  |
|                                       | pages _                                  |   |   | , as originally filed , filed with the demand                  |
|                                       | pages _                                  |   | , filed with the letter of                                  | ,  |
| $\square$                             | the claim                                |   |   |  |
| <u>-</u>                              | pages                                    | 115.  | •   | <del>'</del>   |
|                                       | pages _                                  |   | as amended (togeth)   | , as originally filed er with any statement under Article 19   |
|                                       | pages                                    |   | , аз англичи (говени-                                       | er with any statement under Article 19 , filed with the demand |
| !<br>!                                | pages _                                  | 1-11  | filed with the letter of                                    | 15 September 2003 (15.09.2003)                                 |
|                                       | the drawi                                |   | _, lifet with the read of _                                 | 13 September 2007 (13.03.2003)                                 |
| لكا                                   | the drawi                                |   |   | · · · · · · · · · · · · · · · · · · ·                          |
|                                       | pages                                    | 1/3-3/3   |   | , as originally filed  |
|                                       | pages                                    |   |   | , filed with the demand  |
| П,                                    | _  |   | _, filed with the letter or _                               |  |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |  | ce listing part of the description:   |   |  |
|                                       | pages                                    |   | _   | , as originally filed  |
|                                       | pages                                    |   |   | , filed with the demand  |
|                                       | pages                                    |   | _, filed with the letter of _                               |  |
| 3. With prelin                        | the languor 55.3). regard to minary exar | o any nucleotide and/or amino acid sequence<br>unination was carried out on the basis of the sequence         | of international preliminary                                |  |
| Н                                     |  | d in the international application in written form.   |   |  |
| H                                     |  | ether with the international application in computer re   | readable form.  | •  |
| $\square$                             |  | subsequently to this Authority in written form.   |   |  |
|                                       |  | I subsequently to this Authority in computer readable   |   |  |
|                                       | internation                              | ement that the subsequently furnished written se<br>onal application as filed has been furnished.             |   |  |
|                                       | The stater<br>been furni                 | ement that the information recorded in computer raished.  | readable form is identical                                  | to the written sequence listing has                            |
| i. 🔲                                  | The amen                                 | ndments have resulted in the cancellation of:   |   |  |
| _ [                                   |  | e description, pages  | • 1   |  |
| . [                                   | 5 l                                      | e claims, Nos.  |   |  |
| [                                     | 4 1                                      | e drawings, sheets/fig  |   |  |
| . 🗀 т                                 | This report                              | t has been established as if (some of) the amendment of disclosure as filed, as indicated in the Supplemental | ents had not been made, sir<br>al Box (Rule 70.2(c)).**     | nce they have been considered to go                            |
| Replace<br>in this<br>and 70.         | cement shee<br>report as<br>1.17).       | ets which have been furnished to the receiving Offic<br>s "originally filed" and are not annexed to this      | ice in response to an invitat<br>s report since they do not | t contain amendments (Rule 70.16                               |
| ' Any rep                             | lacement s                               | sheet containing such amendments must be referred   | l to under item I and annex                                 | ed to this report.   |

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 02/06680

| Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; |        |      |      |  |  |
|--|--------|------|------|--|--|
| Statement  |        |      |      |  |  |
| Novelty (N)  | Claims | 1-11 | YES  |  |  |
|  | Claims |      | NO . |  |  |
| Inventive step (IS)  | Claims | 1-11 | YES  |  |  |
| •  | Claims |      | NO   |  |  |
| Industrial applicability (IA)  | Claims | 1-11 | YES  |  |  |
| <u>.</u>   | Claims |      | NO   |  |  |

- Citations and explanations
  - Reference is made to the following document:
    - D1: WO-A-02/03880 (LEE Jong-Suck; PARK Young-Chel (KR)) 17 January 2002 and priority document KR-Y-207 524 (LEE Jong-Suck; PARK Young-Chel (KR)) 15 December 2000.
  - 2. D1 discloses (see page 4, line 4 to page 5, line 7, figures):

an orthodontic implant system for the mobilisation of teeth, said implant system comprising an implant (30) with a shank (31) that can be implanted into a jawbone and a head (33) that adjoins the shank, said head being provided with securing means (33a) for fixing at least one elongate tensioning or retaining element (41) on the head, wherein the retaining means have at least one elongate recess (33a) that is formed on the head and extends substantially transversely or obliquely relative to a longitudinal axis of said shank, said recess (33a) being open at least one longitudinal end to receive a section of at least one tensioning or retaining element.

The subject matter of Claim 1 differs from the implant system of D1 by virtue of a curing or curable adhesive mass for fixing at least one tensioning or retaining element in at least one recess and by virtue of the fact that the depth of the slot is sufficient for at least two tensioning or retaining elements to be received within the slot, one on top of the other.

The problem addressed by the present invention can be regarded as that of designing an improved implant system that requires fewer implants. The solution according to Claim 1 has the technical effect that more than one tensioning or retaining element can be received and secured in one implant, and, thus, more than two teeth can be secured with only one implant, thereby reducing the number of implants required.

In so far as Claim 1 is clear (see point 4. below), this solution to the problem is not obvious for a person skilled in the art, nor is it disclosed in or derivable from the prior art.

- 3. Claims 2-11 are dependent on Claim 1 and thus likewise satisfy the requirements of the PCT in respect of novelty and inventive step.
- 4. Claim 1 fails to satisfy the requirements of PCT
  Article 6 in so far as the subject matter for which
  protection is sought is not clear since Claim 1
  refers to a slot that is first defined in Claim 2.